Adoption of Precision Agriculture Technology

Terry W. Griffin, PhD
Elizabeth A. Yeager, PhD
Gregg Ibendahl, PhD
Department of Agricultural Economics
Where is Kansas, USA?
Commercialization timeline

- Precision soil sampling
- Variable rate fertility
- Automated guidance
- Automated section control
- Yield monitor
- Lightbar
- Yield monitor w/ GNSS
- Variable rate seeding
## Conditional probability of adoption WRT another

<table>
<thead>
<tr>
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<th>Yield mapping</th>
<th>Yield monitor</th>
<th>AGS</th>
<th>ASC</th>
<th>Lightbar</th>
<th>Soil sample</th>
<th>VRF</th>
<th>VRS</th>
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Future work

• Financial characteristics of adopters
• Kansas adoption rates versus USA (USDA ARMS)
• Efficiency measures, DEA
  – Does technology impact technical and overall efficiency?
• Duration analysis
  – How long does it take farmers to adopt?
Terry Griffin, PhD
Cropping Systems Economist
twgriffin@ksu.edu
@SpacePlowboy
Treasurer – International Society of Precision Agriculture
https://ispag.org

Gregg Ibendahl
Farm management and ag finance economist
Ibendahl@ksu.edu
@Ibendahl